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ABSTRACT OF THE DISCLOSURE

A chromium steel alloy comprising 0.25 to 0.35% of carbon, 0.3 to 0.5% of silicon, 0.8 to 1.5% of manganese, 1.0 to 2.0% of molybdenum, 1.5 to 3.5% of chromium, 0.5 to 1.5% of nickel, 0.5 to 2.5% of tungsten, 0.15 to 0.30% of vanadium and/or 0.05 to 0.10% of niobium, 0.05 to 1.0% of copper, 0.01 to 0.2% of aluminum and 0.01 to 1.0% of cobalt, remainder iron is distinguished by a high resistance to hydrogen embrittlement and is therefore particularly suitable for use as a material for objects coated electrolytically, by PVD or by CVD, for example for saw blades with hard-material particles intercalated into the coating.